

RECEIVED

AUG 27 2004

Technology Center 2000

Mail Stop AF

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

RGS/HB

Date: 9/16/03

Doc. No. 4269-83

Serial No. 09/480,501

Inventor: Hwang et al

09-25-03 A09:0

Sir: Kindly acknowledge receipt of the accompanying items listed below by placing your receiving stamp hereon and return mailing:

Application Transmittal and:

Check \$

IDS & PTO-1449 & _____ refs.

Amendment & Amend. Transmittal

Preliminary Amendment

Issue Fee

Brief

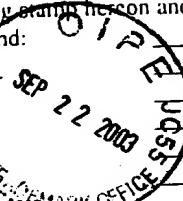
Appeal

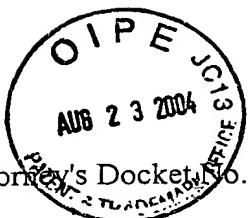
Submittal of Priority Doc.

Exp. Mail 1st Class Mail

Other: Request for Reconsideration AF; 2nd Duplicate
Submittal of IDS; Copies of original IDS & PTO-1449; Copies
of ref. 160-273. Respectfully submitted,

MYERS BIGEL SIBLEY & SAJOVEC, P.A.
Attorneys for Applicant





Attorney's Docket No. RAL9-99-0110/4269-83

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Hwang, et al.

Confirmation No.: 7395

Serial No.: 09/430,501

Group Art Unit: 2631

Filed: October 29, 1999

Examiner: Pankaj Kumar

For: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR
CARRIER DROP DETECTION USING A VARIABLE THRESHOLD

Date: October 25, 2002

Commissioner for Patents
Washington, DC 20231

RECEIVED

AUG 27 2004

SECOND DUPLICATE SUBMITTAL
OF INFORMATION DISCLOSURE STATEMENT

Technology Center 2600

Sir:

Enclosed please find a second duplicate submittal of the Information Disclosure Statement (IDS) that was mailed to the USPTO on June 28, 2000 via first class mail. Copies of the IDS (including a Certificate Of Mailing showing filing on June 28, 2000), Form PTO-1449 (citing 273 references), and two stamped post cards (indicating receipt at the USPTO) are enclosed herewith. Copies of cited non-patent documents (items 160-273) also are enclosed.

Applicants respectfully submit that the stamped post cards indicate receipt of all 273 references by the Patent Office on July 3, 2001 and receipt of the non-patent documents on October 30, 2002. Accordingly, Applicants request formal indication of consideration of all references not previously initialed (items 160-273) in the Information Disclosure Statement filed June 28, 2000.

As reference items 160-273 were misplaced by the USPTO, Applicants respectfully submit that no additional fee is necessary. The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. 50-0563.

Respectfully submitted,

Rohan G. Sabapathypillai
Registration No. 51,074

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on September 16, 2004.

Traci A. Brown

FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket Number
RA9-99-0110/4269-83

Serial No.
09/430,501

LIST OF DOCUMENTS CITED BY APPLICANT

(Use several sheets if necessary)



Applicant: Hwang, et al.

Filing Date:
October 29, 1999

Group
2731

U. S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
1	5,835,538	11/10/98	Townshend	375	295	
2	5,831,561	11/3/98	Cai et al.	341	106	
3	5,809,075	9/15/98	Townshend	375	254	
4	5,801,695	9/1/98	Townshend	375	340	
5	5,793,809	8/11/98	Holmquist	375	242	
6	5,784,405	7/21/98	Betts et al.	375	222	
7	5,778,024	7/7/98	McDonough	375	216	
8	5,768,311	6/16/98	Betts et al.	375	222	
9	5,761,247	6/2/98	Betts et al.	375	316	
10	5,757,849	5/26/98	Gelblum et al.	375	222	
11	5,754,594	5/19/98	Betts et al.	375	285	
12	5,729,226	3/17/98	Betts et al.	341	94	
13	5,598,401	1/28/97	Blackwell et al.	379	94	
14	5,546,395	8/13/96	Sharma et al.	370	84	
15	5,534,913	7/9/96	Majeti et al.	348	7	
16	5,528,679	6/18/96	Taarud	379	34	
17	5,528,625	6/18/96	Ayanoglu et al.	375	222	
18	5,406,583	4/11/95	Dagdeviren	375	5	
19	5,394,437	2/28/95	Ayanoglu et al.	375	222	
20	5,394,110	2/28/95	Mizoguchi	329	304	
21	5,291,479	3/1/94	Vaziri et al.	370	58.2	
22	5,253,291	10/12/93	Naseer et al.	379	406	
23	5,210,755	5/11/93	Nagler et al.	370	108	
24	5,157,690	10/20/92	Buttle	375	14	
25	5,134,611	7/28/92	Steinka et al.	370	79	
26	5,119,403	6/2/92	Krishnan	375	39	
27	5,119,401	6/2/92	Tsujimoto	375	14	
28	5,067,125	11/19/91	Tsuchida	370	79	
29	5,052,000	9/24/91	Wang et al.	371	43	
30	5,040,190	8/13/91	Smith et al.	375	4	
31	5,033,062	7/16/91	Morrow et al.	375	7	
32	5,014,299	5/7/91	Klupt et al.	379	98	
33	4,995,030	2/19/91	Helf	370	32.1	
34	4,985,902	1/15/91	Gurcan	375	14	
35	4,972,360	11/20/90	Cuckier et al.	364	724.04	
36	4,901,333	2/13/90	Hodgkiss	375	98	
37	4,890,303	12/26/89	Bader	375	107	
38	4,884,285	11/28/89	Heynen et al.	375	25	
39	4,868,863	9/19/89	Hartley et al.	379	98	
40	4,797,898	1/10/89	Martinez	375	7	

DATE CONSIDERED

EXAMINER
EXAMINER

Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED

AUG 27 2004

Technology Center 2600

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office				Attorney Docket Number RA9-99-0110/4269-83	Serial No. 09/430,501
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)				Applicant: Hwang, et al.	
				Filing Date: October 29, 1999	Group 2731



41	4,760,598	1/20/88	Ferrell	380	44	
42	4,720,861	1/19/88	Bertrand	381	36	
43	4,578,796	3/25/86	Charalambous et al.	375	8	
44	4,577,310	3/18/86	Korsky et al.	370	58	
45	4,450,556	5/22/84	Boleda et al.	370	58	
46	4,434,322	2/28/84	Ferrell	178	22.13	
47	4,270,027	5/26/81	Agrawal et al.	179	81R	
48	4,237,552	12/2/80	Aikoh et al.	370	83	
49	4,132,242	1/2/79	Carroll, Jr.	137	263	
50	4,112,427	9/5/78	Hofer et al.	340	347	
51	3,729,717	4/24/73	de Koe et al.	340	172.5	
52	3,683,120	8/8/72	Schenkel	179	15A	
53	3,557,308	1/19/71	Alexander et al.	178	69.5	
54	5,918,204	6/29/99	Tsurumaru	704	214	
55	5,914,982	6/22/99	Bjarnason et al.	375	222	
56	5,911,115	6/8/99	Nair et al.	455	63	
57	5,887,027	3/23/99	Cohen et al.	375	222	
58	5,881,102	3/9/99	Samson	375	222	
59	5,881,066	3/9/99	Lepitre	371	20.5	
60	5,872,817	2/16/99	Wei	375	341	
61	5,870,429	2/9/9	Moran, III et al.	375	222	
62	5,862,184	1/19/99	Goldstein et al.	375	295	
63	5,862,179	1/19/99	Goldstein et al.	375	242	
64	5,862,141	1/19/99	Trotter	370	468	
65	5,850,421	12/15/98	Misra et al.	375	354	
66	5,850,388	12/15/98	Anderson et al.	370	252	
67	5,844,940	12/1/98	Goodson et al.	375	222	
68	5,838,724	11/17/98	Cole et al.	375	222	
69	5,835,532	11/10/98	Stolle et al.	375	233	
70	5,825,823	10/20/98	Goldstein et al.	375	286	
71	5,825,816	10/20/98	Cole et al.	375	222	
72	5,822,371	10/13/98	Goldstein et al.	375	242	
73	5,815,534	9/29/98	Glass	375	326	
74	5,812,537	9/22/98	Betts et al.	370	286	
75	5,805,669	9/8/98	Bingel et al.	379	28	
76	5,784,415	7/21/98	Chevillat et al.	375	341	
77	5,757,865	5/26/98	Kaku et al.	375	344	
78	5,734,663	3/31/98	Eggenberger	371	39.1	
79	5,726,765	3/10/98	Yoshida et al.	358	412	
80	5,724,393	3/3/98	Dagdeviren	375	296	
81	5,710,792	1/20/98	Fukawa et al.	375	229	
82	5,694,420	12/2/97	Ohki et al.	375	222	
83	5,671,250	9/23/97	Bremer et al.	375	222	
84	5,646,958	7/8/97	Tsujimoto	375	233	
85	5,634,022	5/27/97	Crouse et al.	395	704	
86	5,625,643	4/29/97	Kaku et al.	375	222	

EXAMINER
*EXAMINER

DATE CONSIDERED

Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED

AUG 27 2004

Technology Center 2600

LIST OF DOCUMENTS CITED BY APPLICANT

(Use several sheets if necessary)



Applicant: Hwang, et al.

Filing Date :
October 29, 1999

Group
2731

87	5,566,211	10/15/98	Choi	375	332
88	5,563,908	10/8/96	Kaku et al.	375	222
89	5,533,048	7/2/96	Dolan	375	222
90	5,519,703	5/21/96	Chauffour et al.	370	84
91	5,513,216	4/30/96	Gadot et al.	375	233
92	5,475,711	12/12/95	Betts et al.	375	240
93	5,434,884	7/18/95	Rushing et al.	375	235
94	5,432,794	7/11/95	Yaguchi	371	5.5
95	5,418,842	5/23/95	Cooper	379	98
96	5,402,445	3/28/95	Matsuura	375	229
97	5,398,303	3/14/95	Tanaka	395	51
98	5,386,438	1/31/95	England	375	121
99	5,351,134	9/27/94	Yaguchi et al.	358	435
100	5,285,474	2/8/94	Chow et al.	375	13
101	5,265,151	11/23/93	Goldstein	379	97
102	5,253,272	10/12/93	Jaeger et al.	375	60
103	5,225,997	7/6/93	Lederer et al.	364	550
104	5,142,552	8/25/92	Tzeng et al.	375	14
105	5,111,481	5/5/92	Chen et al.	375	14
106	5,107,520	4/21/92	Karam et al.	375	60
107	5,065,410	11/21/91	Yoshida et al.	375	98
108	5,007,047	4/9/91	Sridhar et al.	370	32.1
109	5,005,144	4/2/91	Nakajima et al.	364	565
110	4,991,169	2/5/91	Davis et al.	370	77
111	4,953,210	8/28/90	McGlynn et al.	380	48
112	4,943,980	7/24/90	Dobson et al.	375	42
113	4,894,847	1/16/90	Tjahjadi et al.	375	121
114	4,890,316	12/26/89	Walsh et al.	379	98
115	4,833,706	5/23/89	Hughes-Hartogs	379	98
116	4,756,007	7/5/88	Qureshi et al.	375	37
117	4,731,816	3/15/88	Hughes-Hartogs	379	98
118	4,208,630	6/17/80	Martinez	375	7
119	3,622,877	11/23/71	MacDavid et al.	324	73 R
120	5,839,053	11/17/98	Bosch et al.	455	13.1
121	5,068,875	11/26/91	Quintin	375	78
122	5,058,134	10/15/91	Chevillat et al.	375	39
123	5,038,365	8/6/91	Belloc et al.	375	8
124	4,967,413	10/30/90	Otani	371	37.4
125	5,311,578	5/10/94	Bremer et al.	379	97
126	5,317,594	5/31/94	Goldstein	375	8
127	5,926,506	7/20/99	Berthold et al.	375	222
128	5,491,720	2/13/96	Davis et al.	375	222
129	5,353,280	10/4/94	Ungerböck	370	32.1
130	5,852,631	12/22/98	Scott	375	222
131	5,732,104	3/24/98	Brown et al.	375	222
132	5,796,808	8/18/98	Scott et al.	379	93.31

RECEIVED

AUG 27 2004

Technology Center 2600

EXAMINER
*EXAMINER

DATE CONSIDERED

Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office				Attorney Docket Number RA9-99-0110/4269-83	Serial No. 09/430,501	
LIST OF DOCUMENTS CITED BY APPLICANT				Applicant: Hwang, et al.		
(Use several sheets if necessary)				Filing Date : October 29, 1999	Group 2731	
<p style="text-align: center;">AUG 23 2004 PATENT & TRADEMARK OFFICE JC13</p>						

133	5,751,796	5/12/98	Scott et al.	379	93.31	
134	5,187,732	2/16/93	Suzuki	379	5	
135	5,640,387	6/17/97	Takahashi et al.	370	359	
136	5,751,717	5/12/98	Babu et al.	370	466	
137	5,784,377	7/21/98	Baydar et al.	370	463	
138	5,887,027	3/23/99	Cohen et al.	375	222	
139	5,850,388	12/15/98	Anderson et al.	370	252	
140	5,914,982	6/22/99	Bjarnason et al.	375	222	
141	5,726,765	3/10/98	Yoshida et al.	358	412	
142	5,850,421	12/15/98	Misra et al.	375	354	
143	5,729,226	3/17/98	Betts et al.	341	94	
144	5,862,184	1/19/99	Goldstein et al.	375	295	
145	5,911,115	6/8/99	Nair et al.	455	63	
146	5,838,724	11/17/98	Cole et al.	375	222	
147	5,784,415	7/21/98	Chevillat et al.	375	341	
148	5,844,940	12/1/98	Goodson et al.	375	222	
149	5,386,438	1/31/95	England	375	121	
150	5,881,102	3/9/99	Samson	375	222	
151	5,285,474	2/8/94	Chow et al.	375	13	
152	5,513,216	4/30/96	Gadot et al.	375	233	
153	5,835,532	11/10/98	Stolle et al.	375	233	
154	5,418,842	5/23/95	Cooper	379	98	

RECEIVED

AUG 27 2004

Technology Center 2600

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes No
155	WO 98/37637	8/27/98	PCT	H04L		
156	WO 96/18261	6/13/96	PCT	H04M	11/00	
157	0 669 740 A2	12/14/94	Europe	H04L	27/00	
158	0 659 007 A2	11/8/94	Europe	H04M	11/06	
159	0 473 116 A2	8/27/91	Europe	H04N	1/00	
160	2 345 019	3/19/76	France	H04L	27/10	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

161	Erup, et al., <i>Interpolation in Digital Modems - Part II: Implementation and Performance</i> , <i>IEEE Transactions on Communications</i> , Vol. 41, No. 6, pp. 998-1008 (June 1993)
162	Fischer, <i>Signal Mapping for PCM Modems</i> , <i>V-pcm Rapporteur Meeting</i> , Sunriver, Oregon, USA, , 5 pgs. (September 4-12, 1997)
163	Gardner, <i>Interpolation in Digital Modems - Part I: Fundamentals</i> , <i>IEEE Transactions on Communications</i> , Vol. 41, No. 3, pp. 501-507 (March 1993)
164	Humblet et al., <i>The Information Driveway</i> , <i>IEEE Communications Magazine</i> , pp. 64-68 (December 1996)
165	Kalet et al., <i>The Capacity of PCM Voiceband Channels</i> , <i>IEEE International Conference on Communications '93</i> , pp. 507-511 (Geneva, Switzerland, May 23-26, 1993)
166	Mueller et al., <i>Timing Recovery in Digital Synchronous Data Receiver</i> , <i>IEEE Transactions on Communications</i> , Vol. Com-24, No. 5, pp. 516-531 (May 1976)

EXAMINER

*EXAMINER

DATE CONSIDERED

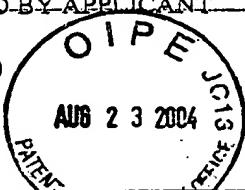
Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office		Attorney Docket Number RA9-99-0110/4269-83	Serial No. 09/630,541
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)		RECEIVED AUG 27 2004 Technology Center 2600 Group 2731	
<p style="text-align: center;"><i>OCT 23 2004</i> PATENT & TRADEMARK OFFICE JC15</p>			
167	Okubo et al., <i>Building Block Design of Large Capacity PCM-TDMA Subscriber System and Direct Digital Interface to Digital Exchange</i> , Japan Radio Co., Ltd., pp. 69-73 (Japan)		
168	Pahlavan et al., <i>Nonlinear Quantization and the Design of Coded and Uncoded Signal Constellations</i> , <u>IEEE Transactions on Communications</u> , Vol. 39, No. 8, pp. 1207-1215 (August 1991)		
169	Proakis, <i>Digital Signaling Over a Channel with Intersymbol Interference</i> , <u>Digital Communications</u> , pgs. 373, 381 (McGraw-Hill Book Company, 1983)		
170	Williams et al., <i>Counteracting the Quantisation Noise from PCM Codecs</i> , BT Laboratories, pp. 24-29 (UK)		
171	<i>A Digital Modem and Analogue Modem Pair for Use on the Public Switched Telephone Network (PSTN) at Data Signalling Rates of Up to 56 000 Bit/s Downstream and 33 600 Bit/s Upstream</i> , <u>ITU-T V.90</u> (September 1998)		
172	<i>Series V: Data Communication Over the Telephone Network; Interfaces and voiceband modems; A modem operating at data signalling rates of up to 33 600 bit/s for use on the general switched telephone network and on leased point-to-point 2-wire telephone type circuits</i> , <u>ITU-T V.34</u> (10/96)		
173	Bell, R.A., et al., <i>Automatic Speed Reduction and Switched Network Back-up</i> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 32, No. 1, pp. 154-157 (June 1989)		
174	Abbiate, J.C., et al., <i>Variable-Data Transmission Modem</i> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 17, No. 11, pp. 3301-3302 (April 1975)		
175	<i>Data Communication Over the Telephone Network; Procedures for Starting Sessions of Data Transmission Over the General Switched Telephone Network</i> , <u>ITU-T V.8</u> (09/94)		
176	<i>Line Quality Monitoring Method</i> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 18, No. 8, pp. 2726-2726 (January 1976)		
177	<i>Loopback Tests for V.54 Data Communication Equipment</i> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 32, No. 3A, pp. 295-299 (August 1989)		
178	<i>On-Line Real Time Modem Testing</i> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 20, No. 6, pp. 2252-2254 (November 1977)		
179	Pierobon, Gianfranco L., <i>Codes of Zero Spectral Density at Zero Frequency</i> , <u>IEEE Transactions on Information Theory</u> , Vol. IT-30, No. 2, pp. 435-439 (March, 1984)		
180	Marcus, Brian H., et al., <i>On Codes with Spectral Nulls at Rational Submultiples of the Symbol Frequency</i> , <u>IEEE Transactions on Information Theory</u> , Vol. IT-33, No. 4, pp. 557-568 (July 1987)		
181	Fischer, Robert, et al., <i>Signal Mapping for PCM Modems</i> , <u>ITU-Telecommunications Standardization Sector PCM '97-120. V.pcm Rapporteur Meeting</u> , (Sunriver, Oregon; September 4-12, 1997)		
182	<i>Pulse Code Modulation (PCM) of Voice Frequencies</i> , <u>ITU-T</u> , Recommendation G.711 (Geneva, 1972)		
183	<i>Series G: Digital Transmission Systems; Terminal equipments - Coding of analogue signals by pulse code modulation; Pulse code modulation (PCM) of voice frequencies</i> , <u>ITU-T</u> , Recommendation G.711 (Geneva, 1996)		
184	<i>Data Communication Over the Telephone Network; Error-Correcting Procedures for DCEs Using Asynchronous-to-Synchronous Conversion</i> , <u>ITU-T V.42</u> (03/93)		
185	<i>Improvement to Spectral Shaping Technique</i> , <u>Research Disclosure</u> , V. 41, n415,415111, pp. 1550-1551 (November 1998)		
186	<i>TIA Standard Draft: North American Telephone Network Transmission Model for Evaluating Analog Client to Digitally Connected Server Modems</i> , Telecommunications Industry Association, PN3857, Draft 10 (February 1999)		
187	Davis, Gordon T., <i>DSP and MATLAB implementation of model-based constellation generation</i> (September 18, 1998)		
188	Woodruff, K.R., et al, <i>Automatic and Adaptive System and Efficient Communication in Noisy Communication Line Environments</i> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 24, No. 9, pp. 4627-4629 (February 1982)		

EXAMINER
*EXAMINER

DATE CONSIDERED

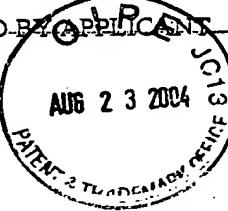
Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office			Attorney Docket Number RA9-99-0110/4269-83	Serial No. 09/4269-83																																																																																																																																												
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)			RECEIVED																																																																																																																																													
			Applicant: Hwang, et al.	AUG 27 2004																																																																																																																																												
			Filing Date : October 29, 1999	Technology Center 2600 Group 2731																																																																																																																																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">189</td> <td colspan="4">Godard, D., et al., <u>Decision Feedback Equalizer Stabilization in Adaptive Mode</u>, <u>IBM Technical Disclosure Bulletin</u>, Vol. 24, No. 11A, pp. 5691-5692 (April 1982)</td> </tr> <tr> <td>190</td> <td colspan="4">Borgnis-Desbordes, P., et al., <u>Variable-Speed Data Transmission</u>, <u>IBM Technical Disclosure Bulletin</u>, Vol. 27, No. 4A, pp. 2269-2270 (September 1984)</td> </tr> <tr> <td>191</td> <td colspan="4">Coulard, G., et al., <u>Analog Wrap Self-Test in Modems During Retrain Operations</u>, <u>IBM Technical Disclosure Bulletin</u>, Vol. 28, No. 6, pg. 2457 (November 1985)</td> </tr> <tr> <td>192</td> <td colspan="4">Maddens, F., <u>Sixteen-State Forward Convolutional Encoder</u>, <u>IBM Technical Disclosure Bulletin</u>, Vol. 28, No. 6, pp. 2466-2468 (November 1985)</td> </tr> <tr> <td>193</td> <td colspan="4"><u>Remote Modem-Type Self-Learning</u>, <u>IBM Technical Disclosure Bulletin</u>, Vol. 28, No. 6, pp. 2398-2399 (November 1985)</td> </tr> <tr> <td>194</td> <td colspan="4"><u>Modem, Sixteen-State Feedback Convolutional Encoder</u>, <u>IBM Technical Disclosure Bulletin</u>, Vol. 28, No. 10, pp. 4212-4213 (March 1986)</td> </tr> <tr> <td>195</td> <td colspan="4">Bell, R. A., et al., <u>Automatic Speed Reduction and Switched Network Back-up</u>, <u>IBM Technical Disclosure Bulletin</u>, Vol. 32, No. 1, pp. 154-157 (June 1989)</td> </tr> <tr> <td>196</td> <td colspan="4">Nobakht, R.A., <u>Trellis-Coded Modulation Coding Scheme for a 19/2 Kbps Modem</u>, <u>IBM Technical Disclosure Bulletin</u>, Vol. 36, No. 11, pp. 167-170 (November 1993)</td> </tr> <tr> <td>197</td> <td colspan="4">Nobakht, R.A., <u>Unified Table Based Subset Decoder for the Viterbi Algorithm</u>, <u>IBM Technical Disclosure Bulletin</u>, Vol. 37, No. 09, pp. 581-587 (September 1994)</td> </tr> <tr> <td>198</td> <td colspan="4">Nobakht, R.A., <u>Trellis Subset Decoder Algorithm Based on a Pattern Recognition Scheme</u>, <u>IBM Technical Disclosure Bulletin</u>, Vol. 37, No. 10, pp. 693-697 (October 1994)</td> </tr> <tr> <td>199</td> <td colspan="4">Abbiate, J.C., et al., <u>Variable-Data Transmission Modem</u>, <u>IBM Technical Disclosure Bulletin</u>, Vol. 17, No. 11, pp. 3301-3302 (April 1975)</td> </tr> <tr> <td>200</td> <td colspan="4">Barlet, J., et al., <u>Full Speed Recovery in High Speed Modems</u>, <u>IBM Technical Disclosure Bulletin</u>, Vol. 23, No. 2, pp. 641-643 (July 1980)</td> </tr> <tr> <td>201</td> <td colspan="4">Dialog Abstract, <u>Sample rate converter for duplex modem</u>, European Patent No. 285413</td> </tr> <tr> <td>202</td> <td colspan="4">Dialog Abstract, <u>Two-speed full-duplex modem for telephone network</u>, PCT No. WO 8501407</td> </tr> <tr> <td>203</td> <td colspan="4">Dialog Abstract, <u>Digital data transmission system</u>, European Patent No. 124674</td> </tr> <tr> <td>204</td> <td colspan="4">Dialog Abstract, <u>Facsimile communication controller</u>, Japanese Publication No. 04-175060 (June 23, 1992)</td> </tr> <tr> <td>205</td> <td colspan="4">Dialog Abstract, <u>Picture communication equipment</u>, Japanese Publication No. 03-120954 (May 23, 1991)</td> </tr> <tr> <td>206</td> <td colspan="4">Dialog Abstract, <u>Radio date transmission system</u>, Japanese Publication No. 01-179535 (July 17, 1989)</td> </tr> <tr> <td>207</td> <td colspan="4">Dialog Abstract, <u>Facsimile device</u>, Japanese Publication No. 57-164654 (October 9, 1982)</td> </tr> <tr> <td>208</td> <td colspan="4">Dialog Abstract, <u>Data repeater</u>, Japanese Publication No. 57-087255 (May 31, 1982)</td> </tr> <tr> <td>209</td> <td colspan="4">Dialog Abstract, <u>Blinding training method for decision feedback equaliser having feed-forward and feedback filters</u>, European Patent No. 880253</td> </tr> <tr> <td>210</td> <td colspan="4">Dialog Abstract, <u>Processing method for distorted signal received by qam receiver</u>, European Patent No. 465851</td> </tr> <tr> <td>211</td> <td colspan="4">Dialog Abstract, <u>Establishing wireless communication channel</u>, PCT No. WO 9905820</td> </tr> <tr> <td>212</td> <td colspan="4">Dialog Abstract, <u>High-speed rate adaptive subscriber line digital data modem</u>, PCT No. WO 9830001</td> </tr> <tr> <td>213</td> <td colspan="4">Dialog Abstract, <u>Digital modem in digital modulation system</u>, Japanese Patent No. 8116341</td> </tr> <tr> <td>214</td> <td colspan="4">Dialog Abstract, <u>Communication equipment and radio communication adapter</u>, Japanese Publication No. 08-340289 (December 24, 1996)</td> </tr> <tr> <td>215</td> <td colspan="4">Dialog Abstract, <u>Data recording method</u>, Japanese Publication No. 05-089597 (April 9, 1993)</td> </tr> <tr> <td>216</td> <td colspan="4">Dialog Abstract, <u>Transmission control system for data communication and its modem equipment</u>, Japanese Publication No. 02-228853 (September 11, 1990)</td> </tr> </table>					189	Godard, D., et al., <u>Decision Feedback Equalizer Stabilization in Adaptive Mode</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 24, No. 11A, pp. 5691-5692 (April 1982)				190	Borgnis-Desbordes, P., et al., <u>Variable-Speed Data Transmission</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 27, No. 4A, pp. 2269-2270 (September 1984)				191	Coulard, G., et al., <u>Analog Wrap Self-Test in Modems During Retrain Operations</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 28, No. 6, pg. 2457 (November 1985)				192	Maddens, F., <u>Sixteen-State Forward Convolutional Encoder</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 28, No. 6, pp. 2466-2468 (November 1985)				193	<u>Remote Modem-Type Self-Learning</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 28, No. 6, pp. 2398-2399 (November 1985)				194	<u>Modem, Sixteen-State Feedback Convolutional Encoder</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 28, No. 10, pp. 4212-4213 (March 1986)				195	Bell, R. A., et al., <u>Automatic Speed Reduction and Switched Network Back-up</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 32, No. 1, pp. 154-157 (June 1989)				196	Nobakht, R.A., <u>Trellis-Coded Modulation Coding Scheme for a 19/2 Kbps Modem</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 36, No. 11, pp. 167-170 (November 1993)				197	Nobakht, R.A., <u>Unified Table Based Subset Decoder for the Viterbi Algorithm</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 37, No. 09, pp. 581-587 (September 1994)				198	Nobakht, R.A., <u>Trellis Subset Decoder Algorithm Based on a Pattern Recognition Scheme</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 37, No. 10, pp. 693-697 (October 1994)				199	Abbiate, J.C., et al., <u>Variable-Data Transmission Modem</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 17, No. 11, pp. 3301-3302 (April 1975)				200	Barlet, J., et al., <u>Full Speed Recovery in High Speed Modems</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 23, No. 2, pp. 641-643 (July 1980)				201	Dialog Abstract, <u>Sample rate converter for duplex modem</u> , European Patent No. 285413				202	Dialog Abstract, <u>Two-speed full-duplex modem for telephone network</u> , PCT No. WO 8501407				203	Dialog Abstract, <u>Digital data transmission system</u> , European Patent No. 124674				204	Dialog Abstract, <u>Facsimile communication controller</u> , Japanese Publication No. 04-175060 (June 23, 1992)				205	Dialog Abstract, <u>Picture communication equipment</u> , Japanese Publication No. 03-120954 (May 23, 1991)				206	Dialog Abstract, <u>Radio date transmission system</u> , Japanese Publication No. 01-179535 (July 17, 1989)				207	Dialog Abstract, <u>Facsimile device</u> , Japanese Publication No. 57-164654 (October 9, 1982)				208	Dialog Abstract, <u>Data repeater</u> , Japanese Publication No. 57-087255 (May 31, 1982)				209	Dialog Abstract, <u>Blinding training method for decision feedback equaliser having feed-forward and feedback filters</u> , European Patent No. 880253				210	Dialog Abstract, <u>Processing method for distorted signal received by qam receiver</u> , European Patent No. 465851				211	Dialog Abstract, <u>Establishing wireless communication channel</u> , PCT No. WO 9905820				212	Dialog Abstract, <u>High-speed rate adaptive subscriber line digital data modem</u> , PCT No. WO 9830001				213	Dialog Abstract, <u>Digital modem in digital modulation system</u> , Japanese Patent No. 8116341				214	Dialog Abstract, <u>Communication equipment and radio communication adapter</u> , Japanese Publication No. 08-340289 (December 24, 1996)				215	Dialog Abstract, <u>Data recording method</u> , Japanese Publication No. 05-089597 (April 9, 1993)				216	Dialog Abstract, <u>Transmission control system for data communication and its modem equipment</u> , Japanese Publication No. 02-228853 (September 11, 1990)			
189	Godard, D., et al., <u>Decision Feedback Equalizer Stabilization in Adaptive Mode</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 24, No. 11A, pp. 5691-5692 (April 1982)																																																																																																																																															
190	Borgnis-Desbordes, P., et al., <u>Variable-Speed Data Transmission</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 27, No. 4A, pp. 2269-2270 (September 1984)																																																																																																																																															
191	Coulard, G., et al., <u>Analog Wrap Self-Test in Modems During Retrain Operations</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 28, No. 6, pg. 2457 (November 1985)																																																																																																																																															
192	Maddens, F., <u>Sixteen-State Forward Convolutional Encoder</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 28, No. 6, pp. 2466-2468 (November 1985)																																																																																																																																															
193	<u>Remote Modem-Type Self-Learning</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 28, No. 6, pp. 2398-2399 (November 1985)																																																																																																																																															
194	<u>Modem, Sixteen-State Feedback Convolutional Encoder</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 28, No. 10, pp. 4212-4213 (March 1986)																																																																																																																																															
195	Bell, R. A., et al., <u>Automatic Speed Reduction and Switched Network Back-up</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 32, No. 1, pp. 154-157 (June 1989)																																																																																																																																															
196	Nobakht, R.A., <u>Trellis-Coded Modulation Coding Scheme for a 19/2 Kbps Modem</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 36, No. 11, pp. 167-170 (November 1993)																																																																																																																																															
197	Nobakht, R.A., <u>Unified Table Based Subset Decoder for the Viterbi Algorithm</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 37, No. 09, pp. 581-587 (September 1994)																																																																																																																																															
198	Nobakht, R.A., <u>Trellis Subset Decoder Algorithm Based on a Pattern Recognition Scheme</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 37, No. 10, pp. 693-697 (October 1994)																																																																																																																																															
199	Abbiate, J.C., et al., <u>Variable-Data Transmission Modem</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 17, No. 11, pp. 3301-3302 (April 1975)																																																																																																																																															
200	Barlet, J., et al., <u>Full Speed Recovery in High Speed Modems</u> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 23, No. 2, pp. 641-643 (July 1980)																																																																																																																																															
201	Dialog Abstract, <u>Sample rate converter for duplex modem</u> , European Patent No. 285413																																																																																																																																															
202	Dialog Abstract, <u>Two-speed full-duplex modem for telephone network</u> , PCT No. WO 8501407																																																																																																																																															
203	Dialog Abstract, <u>Digital data transmission system</u> , European Patent No. 124674																																																																																																																																															
204	Dialog Abstract, <u>Facsimile communication controller</u> , Japanese Publication No. 04-175060 (June 23, 1992)																																																																																																																																															
205	Dialog Abstract, <u>Picture communication equipment</u> , Japanese Publication No. 03-120954 (May 23, 1991)																																																																																																																																															
206	Dialog Abstract, <u>Radio date transmission system</u> , Japanese Publication No. 01-179535 (July 17, 1989)																																																																																																																																															
207	Dialog Abstract, <u>Facsimile device</u> , Japanese Publication No. 57-164654 (October 9, 1982)																																																																																																																																															
208	Dialog Abstract, <u>Data repeater</u> , Japanese Publication No. 57-087255 (May 31, 1982)																																																																																																																																															
209	Dialog Abstract, <u>Blinding training method for decision feedback equaliser having feed-forward and feedback filters</u> , European Patent No. 880253																																																																																																																																															
210	Dialog Abstract, <u>Processing method for distorted signal received by qam receiver</u> , European Patent No. 465851																																																																																																																																															
211	Dialog Abstract, <u>Establishing wireless communication channel</u> , PCT No. WO 9905820																																																																																																																																															
212	Dialog Abstract, <u>High-speed rate adaptive subscriber line digital data modem</u> , PCT No. WO 9830001																																																																																																																																															
213	Dialog Abstract, <u>Digital modem in digital modulation system</u> , Japanese Patent No. 8116341																																																																																																																																															
214	Dialog Abstract, <u>Communication equipment and radio communication adapter</u> , Japanese Publication No. 08-340289 (December 24, 1996)																																																																																																																																															
215	Dialog Abstract, <u>Data recording method</u> , Japanese Publication No. 05-089597 (April 9, 1993)																																																																																																																																															
216	Dialog Abstract, <u>Transmission control system for data communication and its modem equipment</u> , Japanese Publication No. 02-228853 (September 11, 1990)																																																																																																																																															

EXAMINER
*EXAMINER

DATE CONSIDERED

Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office		Attorney Docket Number RA9-99-0110/4269-83	Serial No. 09/630,501
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)		RECEIVED AUG 27 2004 Technology Center 2000 Group 2731	
			
	217	Naguib, A.F., et al., Dialog Abstract, <i>A space-time coding modem for high-data-rate wireless communications</i> , <u>IEEE Journal of Selected Areas in Communications</u> , Vol. 16, No. 8, pp. 1459-78 (October 1998)	
	218	Denno, S., et al., Dialog Abstract, <i>Mbit/s burst modem with an adaptive equalizer for TDMA mobile radio communications</i> , <u>IEICE Transactions on Communications</u> , Vol. E81-B, No. 7, pp. 1453-61 (July 1998)	
	219	Naguib, A.F., et al., Dialog Abstract, <i>A space-time coding modem for high-data-rate wireless communications</i> , <u>GLOBECOM 97, IEEE Global Telecommunications Conference</u> , Vol. 1, pp. 102-9 (1997)	
	220	Kobayashi, K., et al., Dialog Abstract, <i>Fully digital burst modem for satellite multimedia communication systems</i> , <u>IEICE Transactions on Communications</u> , vol. E80-B, No. 1, pp. 8-15 (January 1997)	
	221	Skellern, D.J., et al., Dialog Abstract, <i>A high speed wireless LAN</i> , <u>IEEE Micro</u> , Vol 17, No. 1, pp. 40-47 (January-February 1997)	
	222	Enomoto, K., et al., Dialog Abstract, <i>A mode switching type burst demodulator AFC</i> , <u>Transactions of the Institute of Electronics, Information and Communication Engineers</u> , Vol. J76B-II, No. 5, pp. 415-21 (May 1993)	
	223	Betts, W., Dialog Abstract, <i>Nonlinear encoding by surface projection</i> , <u>International Conference on Data Transmission – Advances in Modem and ISDN Technology and Applications</u> (September 23-25, 1992)	
	224	Schilling, D.L., et al., Dialog Abstract, <i>The FAVR meteor burst communication experiment</i> , <u>Military Communications in a Changing World MILCOM '91</u> (November 4-7, 1991)	
	225	Jacobsmeier, J.M., Dialog Abstract, <i>Adaptive trellis-coded modulation for bandlimited meteor burst channels</i> , <u>IEEE Journal on Selected Areas in Communications</u> , Vol. 10, No. 3, pp. 550-61 (April 1992)	
	226	Sato, T., et al., Dialog Abstract, <i>Protocol configuration and verification of an adaptive error control scheme over analog cellular networks</i> , <u>IEEE Transactions on Vehicular Technology</u> , Vol. 41, No. 1, pp. 69-76 (February 1992)	
	227	Lee, L.-N., et al., Dialog Abstract, <i>Digital signal processor-based programmable BPSK/QPSK/offset-QPSK modems</i> , <u>COMSAT Technical Review</u> , pp. 195-234 (Fall 1989)	
	228	Sato, T., et al., Dialog Abstract, <i>Error-free high-speed data modem</i> , <u>Oki Technical Review</u> , Vol. 56, No. 133, pp. 20-26 (April 1989)	
	229	Seo, J.-S., et al., Dialog Abstract, <i>Performance of convolutional coded SQAM in hardlimited satellite channels</i> , <u>IEEE International Conference on Communications BOSTONICC/89</u> , Vol. 2, pp. 787-91 (June 11-14, 1989)	
	230	Murakama, K., et al., Dialog Abstract, <i>FEC combined burst-modem for business satellite communications use</i> , <u>IEEE/IECE Global Telecommunications Conference 1987</u> , Vol. 1, pp. 274-80 (Japan, November 15-18, 1987)	
	231	McVerry, F., Dialog Abstract, <i>Performance of a fast carrier recovery scheme for burst-format DQPSK transmission over satellite channels</i> , <u>International Conference on Digital Processing of Signals in Communications</u> , pp. 165-72 (United Kingdom, 1985)	
	232	Filter, J.H.J., Dialog Abstract, <i>An algorithm for detecting loss of synchronisation in data transmission test sets (modems)</i> , <u>Transactions of the South African Institute of Electrical Engineers</u> , Vol. 76, No. 1, pp. 39-43 (January 1985)	
	233	Gersho, A., Dialog Abstract, <i>Reduced complexity implementation of passband adaptive equalizers</i> , <u>IEEE Journal on Selected Areas in Communications</u> , Vol. SAC-2, No. 5, pp. 778-9 (September 1984)	
	234	Dialog Abstract, <i>High-speed full-duplex modem reduces telephone connect time</i> , <u>EDN</u> , Vol. 27, No. 18, pg. 77 (September 15, 1982)	

EXAMINER
*EXAMINER

DATE CONSIDERED

Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office		Attorney Docket Number RA9-99-0110/4269-83	Serial No. 09/461,666																																		
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)		RECEIVED Applicant: Hwang, et al. AUG 27 2004	AUG 27 2004																																		
		Filing Date : October 29, 1999	Technology Center 2600 Group 2731																																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">235</td> <td>Chadwick, H., et al., Dialog Abstract, <i>Performance of a TDMA burst modem through a dual nonlinear satellite channel</i>, <u>Fifth International Conference on Digital Satellite Communications</u>, pp. 63-7 (Italy, March 23-26, 1981)</td> </tr> <tr> <td style="text-align: center;">236</td> <td>Nussbaumer, H., Dialog Abstract, <i>Reducing the acquisition time in an automatic equalizer</i>, <u>IBM Technical Disclosure Bulletin</u>, Vol. 18, No. 5, pp. 1465-79 (October 1975)</td> </tr> <tr> <td style="text-align: center;">237</td> <td>Uzunoglu, V., et al., Dialog Abstract, <i>Synchronous and the coherent phase-locked synchronous oscillators: new techniques in synchronization and tracking</i>, <u>IEEE Transactions on Circuits and Systems</u>, Vol. 36, No. 7, pp. 997-1004 (July 1989)</td> </tr> <tr> <td style="text-align: center;">238</td> <td>Minei, I., et al., Dialog Abstract, <i>High-speed Internet access through unidirectional geostationary satellite channels</i>, <u>IEEE Journal on Selected Areas in Communications</u>, Vol. 17, No. 2, pp. 345-59 (February 1999)</td> </tr> <tr> <td style="text-align: center;">239</td> <td>Ovadia, S., Dialog Abstract, <i>The effect of interleaver depth and QAM channel frequency offset on the performance of multichannel AM-VSB/256-QAM video lightwave transmission systems</i>, <u>International Conference on Telecommunications: Bridging East and West Through Communications</u>, Vol. 1, pp. 339-43 (Greece, June 21-25, 1998)</td> </tr> <tr> <td style="text-align: center;">240</td> <td>Johnson, R.W., et al., Dialog Abstract, <i>Error correction coding for serial-tone HG transmission</i>, <u>Seventh International Conference on HF Radio Systems and Techniques</u>, pp. 80-84 (United Kingdom, July 7-10, 1997)</td> </tr> <tr> <td style="text-align: center;">241</td> <td>Karasawa, Y., et al., Dialog Abstract, <i>Cycle slip in clock recovery on frequency-selective fading channels</i>, <u>IEEE Transactions on Communications</u>, Vol. 45, No. 3, pp. 376-83 (March 1997)</td> </tr> <tr> <td style="text-align: center;">242</td> <td>Umehira, M., et al., Dialog Abstract, <i>Design and performance of burst carrier recovery using a phase compensated filter</i>, <u>Transactions of the Institute of Electronics, Information and Communication Engineers</u>, Vol. J78B-II, No. 12, pp. 735-46 (December 1995)</td> </tr> <tr> <td style="text-align: center;">243</td> <td>De Bot, P., et al., Dialog Abstract, <i>An example of a multi-resolution digital terrestrial TV modem</i>, <u>Proceedings of ICC '93 - IEEE International Conference on Communications</u>, Vol. 3, pp. 1785-90 (Switzerland, May 23-26, 1993)</td> </tr> <tr> <td style="text-align: center;">244</td> <td>Lei, Chen, et al., Dialog Abstract, <i>Single-tone HF high speed data modem</i>, <u>Proceedings of TENCON '93 - IEEE Region 10 International Conference on Computers, Communications and Automation</u>, Vol. 3, pp. 94-98 (China, October 19-21, 1993)</td> </tr> <tr> <td style="text-align: center;">245</td> <td>Woerner, B.D., et al., Dialog Abstract, <i>Simulation issues for future wireless modems</i>, <u>IEEE Communications</u>, Vol. 32, No. 7, pp. 42-53 (July 1994)</td> </tr> <tr> <td style="text-align: center;">246</td> <td>Sato, T., et al., Dialog Abstract, <i>Vehicle terminal equipment with dedicated DSP</i>, <u>Oki Technical Review</u>, Vol. 58, No. 144, pp. 49-52 (July 1992)</td> </tr> <tr> <td style="text-align: center;">247</td> <td>Sato, T., et al., Dialog Abstract, <i>Protocol configuration and verification of an adaptive error control scheme over analog cellular networks</i>, <u>IEEE Transactions on Vehicular Technology</u>, Vol. 41, No. 1, pp. 69-76 (February 1992)</td> </tr> <tr> <td style="text-align: center;">248</td> <td>Tamm, Yu.A., Dialog Abstract, <i>The effect of suppressing harmonic interference using an adaptive equalizer</i>, <u>Elektrosvyaz</u>, Vol. 45, No. 3, pp. 5-10 (March 1990)</td> </tr> <tr> <td style="text-align: center;">249</td> <td>Saleh, A.A.M., et al., Dialog Abstract, <i>An experimental TDMA indoor radio communications system using slow frequency hopping and coding</i>, <u>IEEE Transactions on Communications</u>, Vol. 39, No. 1, pp. 152-62 (January, 1991)</td> </tr> <tr> <td style="text-align: center;">250</td> <td>Nergis, A., Dialog Abstract, <i>Optimum HF digital communication systems with block coding and interleaving techniques</i>, <u>Proceedings of the 1990 Bilkent International Conference on New Trends in Communication, Control and Signal Processing</u>, Vol. 1, pp. 511-17 (Turkey, July 2-5, 1990)</td> </tr> <tr> <td style="text-align: center;">251</td> <td>Kawamata, F., et al., Dialog Abstract, <i>An evaluation of voice codecs and facsimiles</i>, <u>Review of the Communications Research Laboratory</u>, Vol. 36, pp. 69-73 (March 1990)</td> </tr> </table>				235	Chadwick, H., et al., Dialog Abstract, <i>Performance of a TDMA burst modem through a dual nonlinear satellite channel</i> , <u>Fifth International Conference on Digital Satellite Communications</u> , pp. 63-7 (Italy, March 23-26, 1981)	236	Nussbaumer, H., Dialog Abstract, <i>Reducing the acquisition time in an automatic equalizer</i> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 18, No. 5, pp. 1465-79 (October 1975)	237	Uzunoglu, V., et al., Dialog Abstract, <i>Synchronous and the coherent phase-locked synchronous oscillators: new techniques in synchronization and tracking</i> , <u>IEEE Transactions on Circuits and Systems</u> , Vol. 36, No. 7, pp. 997-1004 (July 1989)	238	Minei, I., et al., Dialog Abstract, <i>High-speed Internet access through unidirectional geostationary satellite channels</i> , <u>IEEE Journal on Selected Areas in Communications</u> , Vol. 17, No. 2, pp. 345-59 (February 1999)	239	Ovadia, S., Dialog Abstract, <i>The effect of interleaver depth and QAM channel frequency offset on the performance of multichannel AM-VSB/256-QAM video lightwave transmission systems</i> , <u>International Conference on Telecommunications: Bridging East and West Through Communications</u> , Vol. 1, pp. 339-43 (Greece, June 21-25, 1998)	240	Johnson, R.W., et al., Dialog Abstract, <i>Error correction coding for serial-tone HG transmission</i> , <u>Seventh International Conference on HF Radio Systems and Techniques</u> , pp. 80-84 (United Kingdom, July 7-10, 1997)	241	Karasawa, Y., et al., Dialog Abstract, <i>Cycle slip in clock recovery on frequency-selective fading channels</i> , <u>IEEE Transactions on Communications</u> , Vol. 45, No. 3, pp. 376-83 (March 1997)	242	Umehira, M., et al., Dialog Abstract, <i>Design and performance of burst carrier recovery using a phase compensated filter</i> , <u>Transactions of the Institute of Electronics, Information and Communication Engineers</u> , Vol. J78B-II, No. 12, pp. 735-46 (December 1995)	243	De Bot, P., et al., Dialog Abstract, <i>An example of a multi-resolution digital terrestrial TV modem</i> , <u>Proceedings of ICC '93 - IEEE International Conference on Communications</u> , Vol. 3, pp. 1785-90 (Switzerland, May 23-26, 1993)	244	Lei, Chen, et al., Dialog Abstract, <i>Single-tone HF high speed data modem</i> , <u>Proceedings of TENCON '93 - IEEE Region 10 International Conference on Computers, Communications and Automation</u> , Vol. 3, pp. 94-98 (China, October 19-21, 1993)	245	Woerner, B.D., et al., Dialog Abstract, <i>Simulation issues for future wireless modems</i> , <u>IEEE Communications</u> , Vol. 32, No. 7, pp. 42-53 (July 1994)	246	Sato, T., et al., Dialog Abstract, <i>Vehicle terminal equipment with dedicated DSP</i> , <u>Oki Technical Review</u> , Vol. 58, No. 144, pp. 49-52 (July 1992)	247	Sato, T., et al., Dialog Abstract, <i>Protocol configuration and verification of an adaptive error control scheme over analog cellular networks</i> , <u>IEEE Transactions on Vehicular Technology</u> , Vol. 41, No. 1, pp. 69-76 (February 1992)	248	Tamm, Yu.A., Dialog Abstract, <i>The effect of suppressing harmonic interference using an adaptive equalizer</i> , <u>Elektrosvyaz</u> , Vol. 45, No. 3, pp. 5-10 (March 1990)	249	Saleh, A.A.M., et al., Dialog Abstract, <i>An experimental TDMA indoor radio communications system using slow frequency hopping and coding</i> , <u>IEEE Transactions on Communications</u> , Vol. 39, No. 1, pp. 152-62 (January, 1991)	250	Nergis, A., Dialog Abstract, <i>Optimum HF digital communication systems with block coding and interleaving techniques</i> , <u>Proceedings of the 1990 Bilkent International Conference on New Trends in Communication, Control and Signal Processing</u> , Vol. 1, pp. 511-17 (Turkey, July 2-5, 1990)	251	Kawamata, F., et al., Dialog Abstract, <i>An evaluation of voice codecs and facsimiles</i> , <u>Review of the Communications Research Laboratory</u> , Vol. 36, pp. 69-73 (March 1990)
235	Chadwick, H., et al., Dialog Abstract, <i>Performance of a TDMA burst modem through a dual nonlinear satellite channel</i> , <u>Fifth International Conference on Digital Satellite Communications</u> , pp. 63-7 (Italy, March 23-26, 1981)																																				
236	Nussbaumer, H., Dialog Abstract, <i>Reducing the acquisition time in an automatic equalizer</i> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 18, No. 5, pp. 1465-79 (October 1975)																																				
237	Uzunoglu, V., et al., Dialog Abstract, <i>Synchronous and the coherent phase-locked synchronous oscillators: new techniques in synchronization and tracking</i> , <u>IEEE Transactions on Circuits and Systems</u> , Vol. 36, No. 7, pp. 997-1004 (July 1989)																																				
238	Minei, I., et al., Dialog Abstract, <i>High-speed Internet access through unidirectional geostationary satellite channels</i> , <u>IEEE Journal on Selected Areas in Communications</u> , Vol. 17, No. 2, pp. 345-59 (February 1999)																																				
239	Ovadia, S., Dialog Abstract, <i>The effect of interleaver depth and QAM channel frequency offset on the performance of multichannel AM-VSB/256-QAM video lightwave transmission systems</i> , <u>International Conference on Telecommunications: Bridging East and West Through Communications</u> , Vol. 1, pp. 339-43 (Greece, June 21-25, 1998)																																				
240	Johnson, R.W., et al., Dialog Abstract, <i>Error correction coding for serial-tone HG transmission</i> , <u>Seventh International Conference on HF Radio Systems and Techniques</u> , pp. 80-84 (United Kingdom, July 7-10, 1997)																																				
241	Karasawa, Y., et al., Dialog Abstract, <i>Cycle slip in clock recovery on frequency-selective fading channels</i> , <u>IEEE Transactions on Communications</u> , Vol. 45, No. 3, pp. 376-83 (March 1997)																																				
242	Umehira, M., et al., Dialog Abstract, <i>Design and performance of burst carrier recovery using a phase compensated filter</i> , <u>Transactions of the Institute of Electronics, Information and Communication Engineers</u> , Vol. J78B-II, No. 12, pp. 735-46 (December 1995)																																				
243	De Bot, P., et al., Dialog Abstract, <i>An example of a multi-resolution digital terrestrial TV modem</i> , <u>Proceedings of ICC '93 - IEEE International Conference on Communications</u> , Vol. 3, pp. 1785-90 (Switzerland, May 23-26, 1993)																																				
244	Lei, Chen, et al., Dialog Abstract, <i>Single-tone HF high speed data modem</i> , <u>Proceedings of TENCON '93 - IEEE Region 10 International Conference on Computers, Communications and Automation</u> , Vol. 3, pp. 94-98 (China, October 19-21, 1993)																																				
245	Woerner, B.D., et al., Dialog Abstract, <i>Simulation issues for future wireless modems</i> , <u>IEEE Communications</u> , Vol. 32, No. 7, pp. 42-53 (July 1994)																																				
246	Sato, T., et al., Dialog Abstract, <i>Vehicle terminal equipment with dedicated DSP</i> , <u>Oki Technical Review</u> , Vol. 58, No. 144, pp. 49-52 (July 1992)																																				
247	Sato, T., et al., Dialog Abstract, <i>Protocol configuration and verification of an adaptive error control scheme over analog cellular networks</i> , <u>IEEE Transactions on Vehicular Technology</u> , Vol. 41, No. 1, pp. 69-76 (February 1992)																																				
248	Tamm, Yu.A., Dialog Abstract, <i>The effect of suppressing harmonic interference using an adaptive equalizer</i> , <u>Elektrosvyaz</u> , Vol. 45, No. 3, pp. 5-10 (March 1990)																																				
249	Saleh, A.A.M., et al., Dialog Abstract, <i>An experimental TDMA indoor radio communications system using slow frequency hopping and coding</i> , <u>IEEE Transactions on Communications</u> , Vol. 39, No. 1, pp. 152-62 (January, 1991)																																				
250	Nergis, A., Dialog Abstract, <i>Optimum HF digital communication systems with block coding and interleaving techniques</i> , <u>Proceedings of the 1990 Bilkent International Conference on New Trends in Communication, Control and Signal Processing</u> , Vol. 1, pp. 511-17 (Turkey, July 2-5, 1990)																																				
251	Kawamata, F., et al., Dialog Abstract, <i>An evaluation of voice codecs and facsimiles</i> , <u>Review of the Communications Research Laboratory</u> , Vol. 36, pp. 69-73 (March 1990)																																				

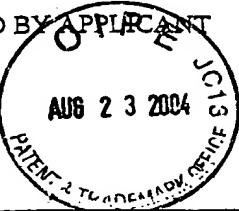
EXAMINER
EXAMINER

DATE CONSIDERED

Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office		Attorney Docket Number RA9-99-0110/4269-83	Serial No. 09/450,50
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)		RECEIVED AUG 27 2004 Technology Center 2600 Filing Date : October 29, 1999	
<p style="text-align: center;">P JC19 AUG 23 2004 PATENT & TRADEMARK OFFICE</p>			
252	Sato, T., et al., Dialog Abstract, <i>Error-free high-speed data transmission protocol simultaneously applicable to both wire and mobile radio channels</i> , <u>38th IEEE Vehicular Technology Conference: 'Telecommunications Freedom - Technology on the Move'</u> , pp. 489-96 (June 15-17, 1988)		
253	Dialog Abstract, <i>1200-bit/s cellular modem DLD03H</i> , <u>Oki Technical Review</u> , Vol. 53, No. 127, pp. 70-72 (July 1987)		
254	Chamberlin, J.W., et al., Dialog Abstract, <i>Design and field test of a 256-QAM DIV modem</i> , <u>IEEE Journal on Selected Areas in Communications</u> , Vol. SAC-5, No. 3, pp. 349-56 (April 1987)		
255	De Cristofaro, R., et al., Dialog Abstract, <i>A 120 B/s QPSK modem designed for the INTELSAT TDMA network</i> , <u>International Journal of Satellite Communications</u> , Vol. 3, Nos. 1-2, pp. 145-60 (January/June, 1985)		
256	Shumate, A., Dialog Abstract, <i>Error correction coding for channels subject to occasional losses of bit count integrity</i> , <u>IEEE Military Communications Conference</u> , Vol. 1, pp. 89-83 (October 21-24, 1984)		
257	Suyderhoud, H., et al., Dialog Abstract, <i>Investigation of 9.6 kb/s data transmission via a PCM link at 64 kb/s with and without link errors</i> , <u>International Journal of Satellite Communications</u> , Vol. 2, No. 1, pp. 81-87 (January-March, 1984)		
258	Smith, C., Dialog Abstract, <i>Relating the performance of speech processors to the bit error rate</i> , <u>Speech Technology</u> , Vol. 2, No. 1, pp. 41-53 (September-October 1983)		
259	Suyderhoud, H., et al., Dialog Abstract, <i>Investigation of 9.6-kbit/s data transmission via a PCM link at 64 kbit/s with and without link errors</i> , <u>Sixth International Conference on Digital Satellite Communications Proceedings</u> , pp. 26-33 (September 19, 23, 1983)		
260	Kittel, L., Dialog Abstract, <i>Analogue and discrete channel models for signal transmission in mobile radio</i> , <u>Frequenz</u> , Vol. 36, Nos. 4-5, pp. 153-60 (April-May 1982)		
261	Farrell, P.G., et al., Dialog Abstract, <i>Soft-decision error control of h.f. data transmission</i> , <u>IEE Proceedings F (Communications, Radar and Signal Processing)</u> , Vol. 127, No. 5, pp. 389-400 (October 1980)		
262	Johnson, A.L., Dialog Abstract, <i>Simulation and implementation of a modulation system for overcoming ionospheric scintillation fading</i> , <u>AGARD Conference Proceedings No. 173 on Radio Systems and the Ionosphere</u> , pp. 3/1-5 (Greece, May 26-30, 1975)		
263	Matsumura, K., et al., Dialog Abstract, <i>Anti-interference data-transmission set of HF radio equipment</i> , <u>Mitsubishi Electric Engineer</u> , No. 41, pp. 18-23 (September, 1974)		
264	Blank, H.A., et al., Dialog Abstract, <i>A Markov error channel model</i> , <u>1973 National Telecommunications Conference</u> , Vol. 1, pp. 15B/1-8 (November 26-28, 1973)		
265	McGruther, W.G., Dialog Abstract, <i>Long term error performance data for operation at 2400 bps on a nonswitched private line network</i> , <u>Summaries of papers presented at 1970 Canadian symposium on communications</u> , pp. 65-6 (Canada, November 12-13, 1970)		
266	Burton, H.O., et al., Dialog Abstract, <i>On the use of error statistics from data transmission on telephone facilities to estimate performance of forward-error-correction</i> , <u>1970 international conference on communications</u> , p. 21 (June 8-10, 1970)		
267	Bowen, R.R., Dialog Abstract, <i>Application on burst error correction codes to data modems for dispersive channels</i> , <u>Proceedings of the 1970 international symposium on information theory</u> , p. 1 (Netherlands, June 15-19, 1970)		
268	Pierce, A.W., et al., Dialog Abstract, <i>Effective application of forward-acting error-control coding to multichannel h.f. data modems</i> , <u>IEEE Transactions on Communication Technology</u> , Vol. Com-18, No. 4, pp. 281-94 (August 1970)		
269	West, R.L., Abstract, <i>Data Concentration Method</i> , <u>IBM Technical Disclosure Bulletin</u> , pp. 487-489; http://w3.infogate.ibm.com:1207/SESS506884/GETDOC/39/2/1 (July, 1975)		

EXAMINER
*EXAMINERDATE CONSIDERED
Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office		Attorney Docket Number RA9-99-0110/4269-83	Serial No. 09/430,501
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)			
 <p>Applicant: Hwang, et al.</p>			
		Filing Date: October 29, 1999	Group 2731
270	Haas, L.C., et al., Abstract, <i>Received Line Signal Quality Analysis</i> , IBM Technical Disclosure Bulletin, pp. 5414-5416; http://w3.infogate.ibm.com:1207/SESS506884/GETDOC/43/1/1 (May, 1981)		
271	Nussbaumer, H., Abstract, <i>Reducing the Acquisition Time in an Automatic Equalizer</i> , IBM Technical Disclosure Bulletin, pp. 1465-1479; http://w3.infogate.ibm.com:1207/SESS506884/GETDOC/40/2/1 (October 1975)		
272	Dialog Abstract, <i>Listener echo canceller for digital communication system</i> , PCT No. WO 9310607		
273	Dialog Abstract, <i>Reduced time remote access method for modem computer</i> , PCT No. WO 9209165		

RECEIVED

AUG 27 2004

Technology Center 2600

EXAMINER
*EXAMINER

DATE CONSIDERED

Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.